

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/537,501	03/29/2000	•	Olli Talvitie	460-009334-US(PAR)	6906	
75	7590 12/24/2003			EXAM	EXAMINER	
Clarence A Green				LE, DA	LE, DANH C	
Perman & Gree	n LLP				. , نماند	
425 Post Road				ART UNIT	PAPER NUMBER	
Fairfield, CT	06430			2683	17	
				DATE MAILED: 12/24/200	DATE MAILED: 12/24/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

e		Application No.	Applicant(s)					
		09/537,501	TALVITIE ET AL.					
	Office Action Summary	Examiner	Art Unit					
		DANH C LE	2683					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE : - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply by within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this communication. DNED (35 U.S.C. § 133).					
1)⊠	Responsive to communication(s) filed on <u>01 D</u>	<u>ecember 2003</u> .						
2a) <u></u>	This action is FINAL . 2b)⊠ This	action is non-final.						
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	 ✓ Claim(s) 2.5,8,9,12,14 and 15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 2.5,8,9,12,14 and 15 is/are rejected. ☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 							
	ion Papers	r election requirement.						
	·							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
. • ,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. §§ 119 and 120		•					
* \$ 13)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: See the attached detailed Copies of the priority document: Acknowledgment is made of a claim for domestince a specific reference was included in the first of CFR 1.78. Copies of the certified copies of the priority document: Copies of the certified copies of the priority document: Copies of the certified copies of the priority document: Copies of the certified copies of the priority document: Copies of the priority	s have been received. s have been received in Applicative documents have been received in Applicative documents have been received. If (PCT Rule 17.2(a)). If the certified copies not receive priority under 35 U.S.C. § 11 at sentence of the specification documents application has been copriority under 35 U.S.C. §§ 1	eation No eived in this National Stage eived. 9(e) (to a provisional application) or in an Application Data Sheet. received. 20 and/or 121 since a specific					
Attachmen	at(s)							
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>1</u>	5) 🔲 Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)					

Art Unit: 2683

DETAILED ACTION

Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Priority

Should applicant desire to obtain the benefit of foreign priority under 35 U.S.C. 119(a)-(d) prior to declaration of an interference, a translation of the foreign application should be submitted under 37 CFR 1.55 in reply to this action.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 5, 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claim 2, 5, 12, the phrase "detecting means to detect the matching of the antenna by measuring a distance" it is unclear to what the term "a distance" refers to.

Dependent claims 8, 9, 14, 15 are rejected for the same reason.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Art Unit: 2683

1. Claims 2, 5, 12 are rejected under 35 U.S.C. 102(a) as being anticipated by Masanobu (JP 11-308142).

As to claim 2, Masanobu teaches the system for matching an antenna for a wireless communication device (figure 1), characterized in that it comprises:

detecting means to detect the matching of the antenna by measuring a distance and means to generate a matching signal on the basis of the distance measurement, control means to examine said matching signal, to determine the need for matching, and to generate a control signal on the basis of said matching signal, and antenna matching means to adjust the matching of the antenna on the basis of said control signal (paragraph 13-20).

As to claim 5, the claim is a apparatus of claim 2; therefore, the claim is interpreted and rejected as set forth in the claim 2.

As to claim 12, the claim is a method of claim 2; therefore, the claim is interpreted and rejected as set forth in the claim 2.

Art Unit: 2683

2. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Masanobu in view of Terk (US 5,812,066).

As to claim 8, Masanobu fails to teach the means to measure the distance comprises an infrared transmitter and receiver. Terk teaches wireless communication device according to claim 7, characterized in that said means to measure a distance comprise an infrared transmitter (col.13, lines 21-41) and an infrared receiver (col.12, line 43-col.13, line 2).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Terk into the system of Masanobu in order to provide enhanced system performance of the portable radio apparatus having adaptive antenna matching.

3. Claims 9, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masanobu in view of Tamura (US 5,335,638).

As to claim 9, Masanobu teaches the wireless communication device according to claim 5. Masanobu fails to teach the antenna is arranged to be placed in at least two different positions, characterized in that said detecting means comprise means to examine the position of the antenna and means to generate the matching signal on the basis of the position of the antenna. Tamura teaches the antenna (20) is arranged to be placed in at least two different positions, characterized in that said detecting means comprise means to examine the position of the antenna (20) and means to generate the matching signal on the basis of the position of the antenna (col.3, line 14-col.4, line 40). Therefore, it would have been obvious to one of ordinary skill in the art at the time the

invention was made to provide the teaching of Tamura into the system of Masanobu in order to provide enhanced system performance of the portable radio apparatus having adaptive antenna matching.

As to claim 14, the limitation of the claim is the same the limitation of claim 9; therefore, the claim is interpreted and rejected as set forth in the claim 9.

As to claim 15, Tamura further teaches the wireless communication device comprising at least a keypad cover (10) arranged to be placed in at least two different positions, characterized in that said detecting means comprise means to examine the position of the keypad cover (10) and means to generate the matching signal on the basis of the position of the keypad cover (40).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANH C LE whose telephone number is 703-306-0542. The examiner can normally be reached on 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WILLIAM TROST can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Art Unit: 2683

Danh C.Le

WILLIAM TROST SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600 Page 6